## Central Event Handler

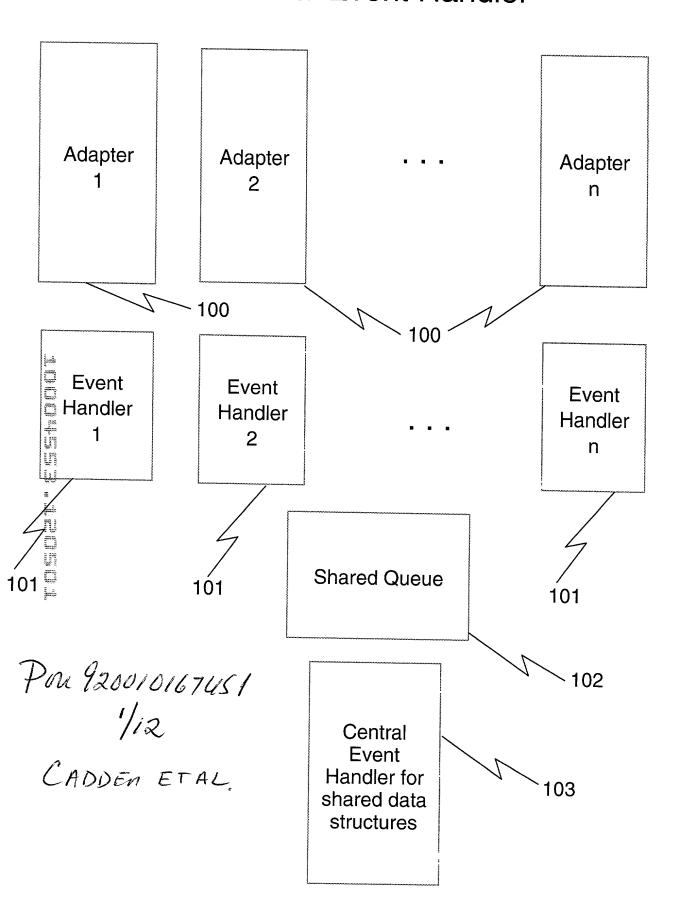


Figure 1

## **Shared Lock**

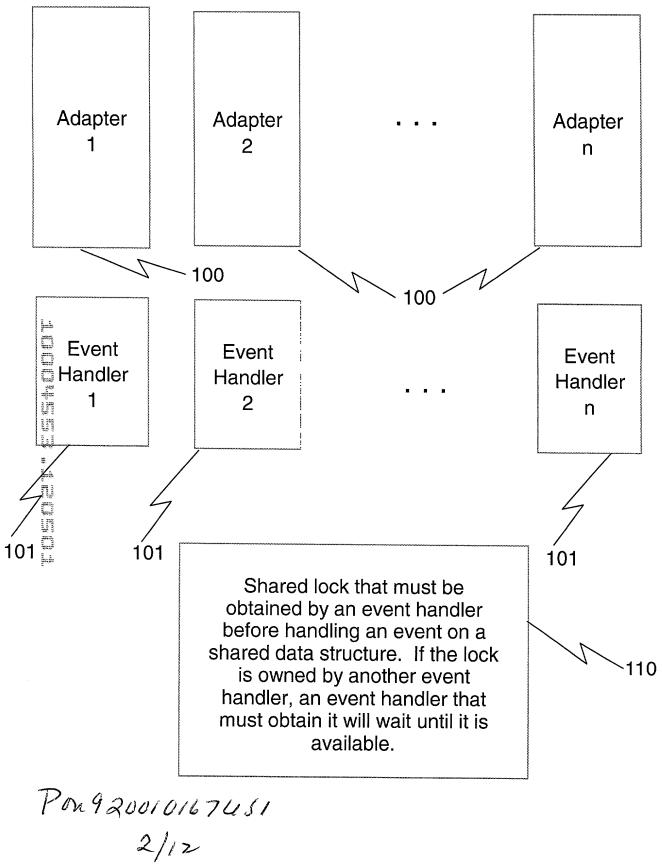
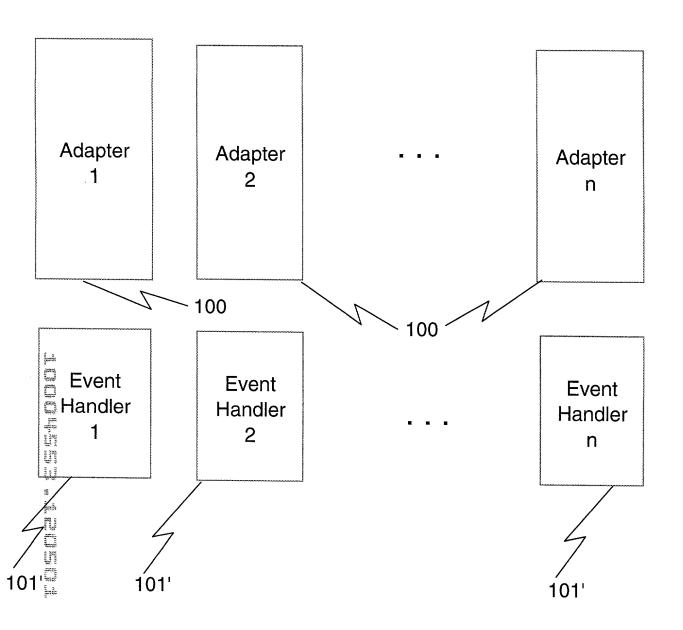


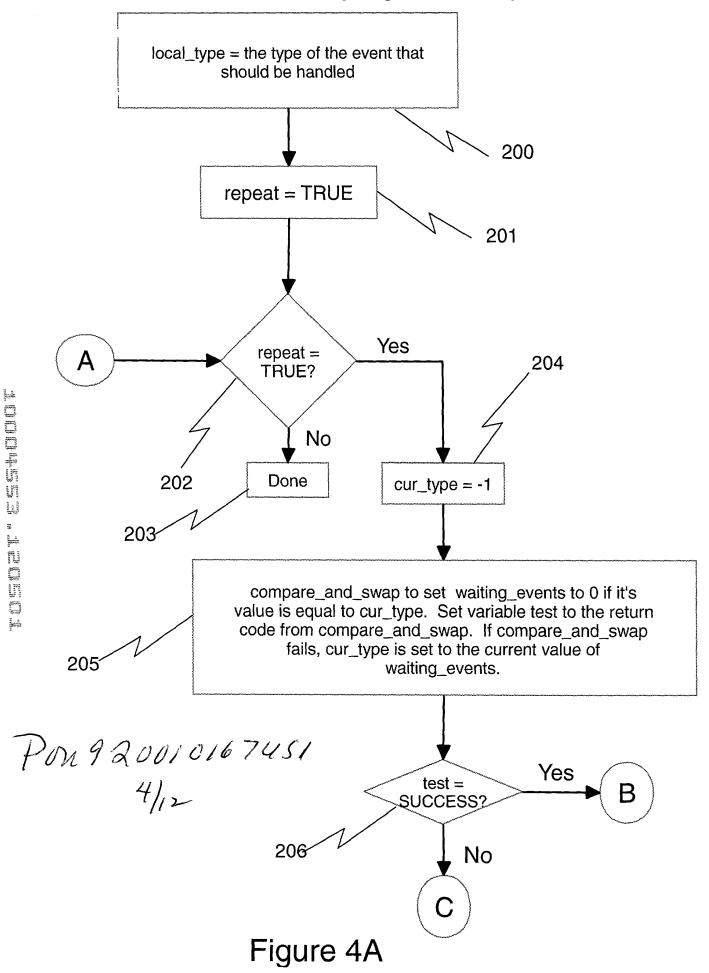
Figure 2

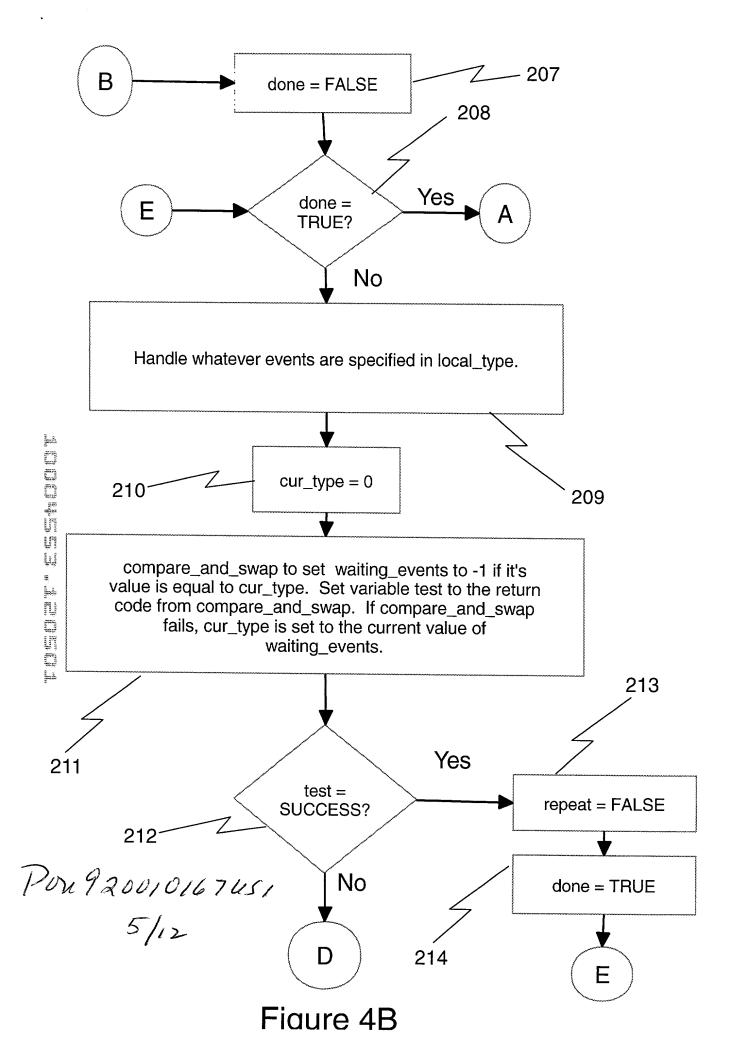
## Task Structure

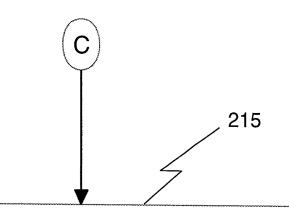


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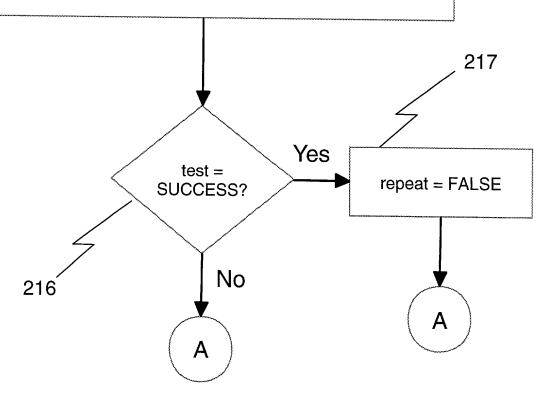
Figure 3







compare\_and\_swap to set waiting\_events to (cur\_type orred with local\_type) if it's value is equal to the value of cur\_type returned by the previous compare\_and\_swap. Set variable test to the return code from compare\_and\_swap. If compare\_and\_swap fails, cur\_type is set to the current value of waiting\_events.



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Figure 4C

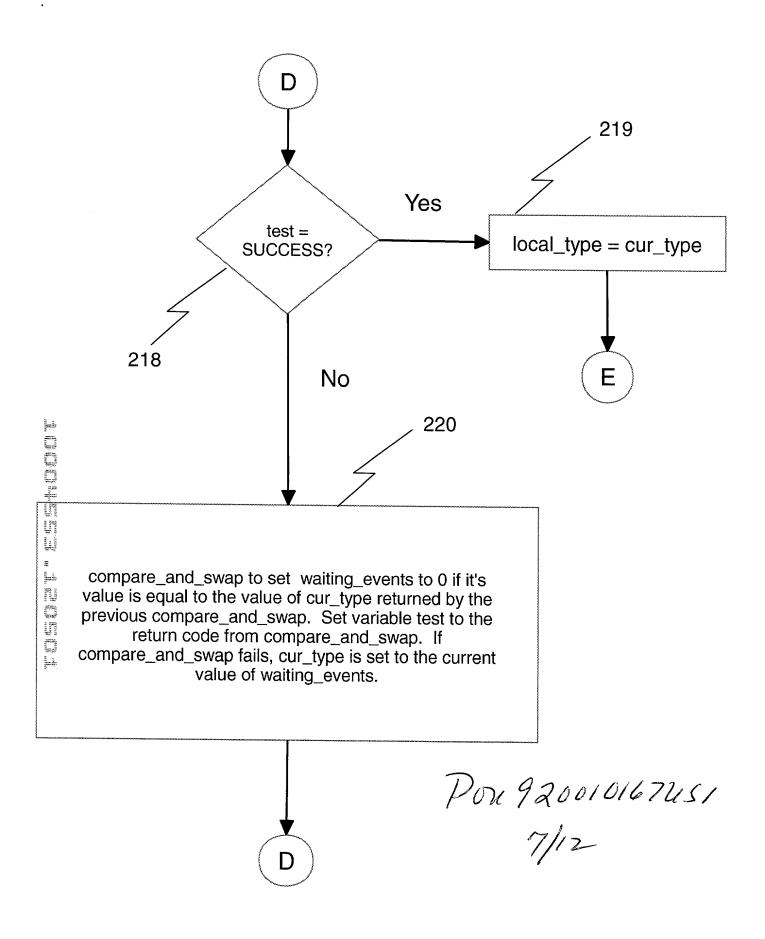
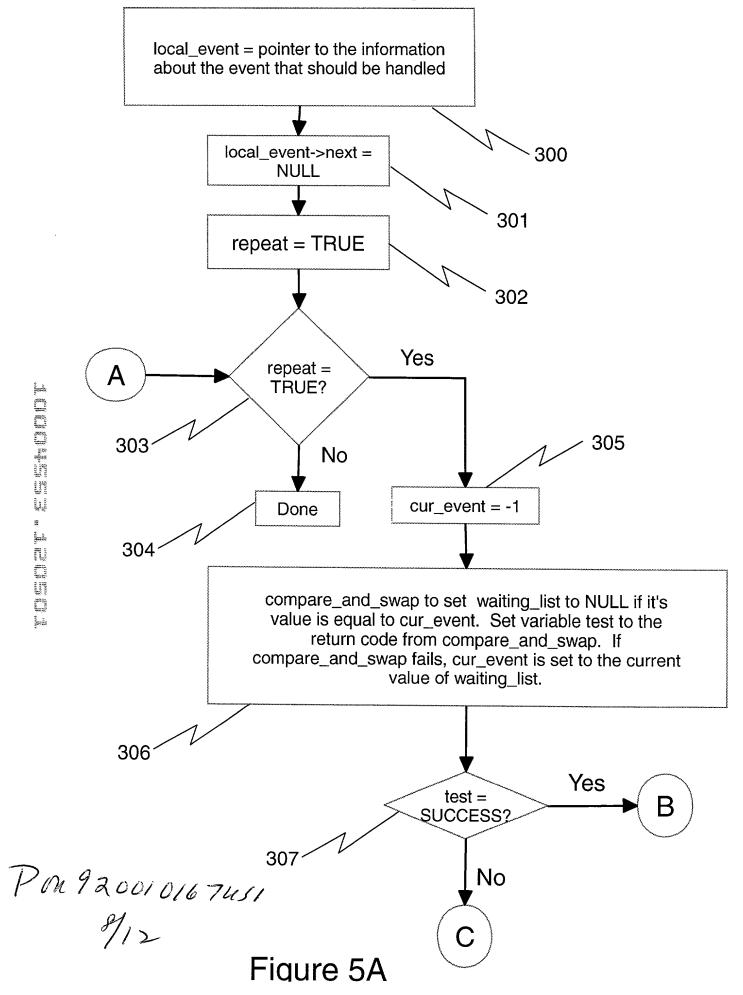
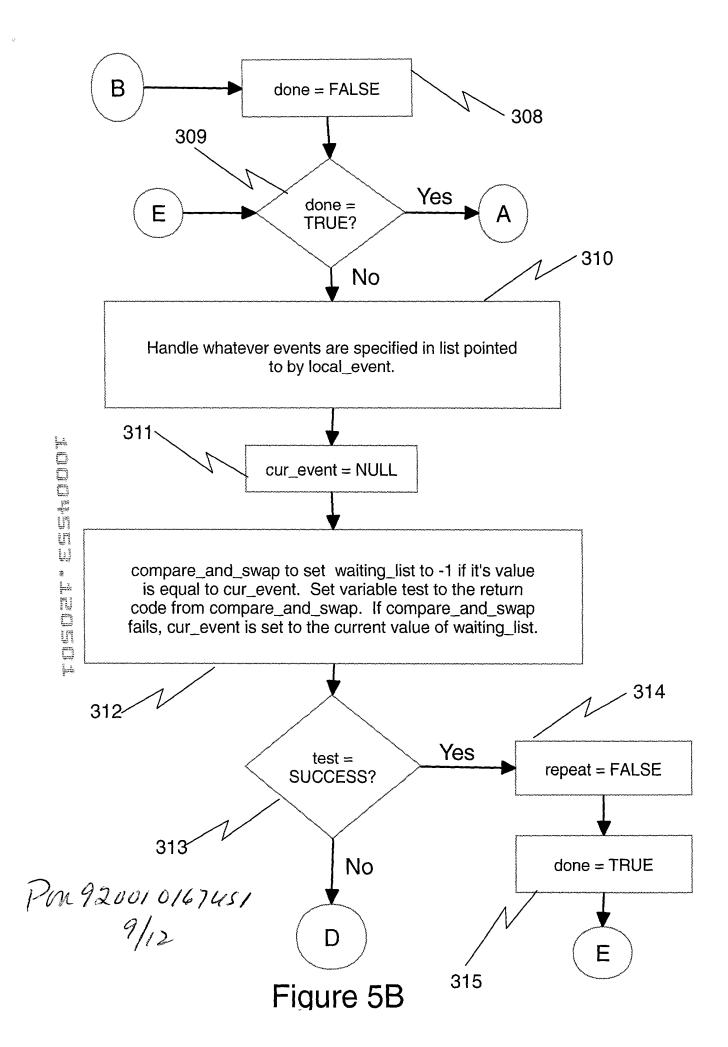
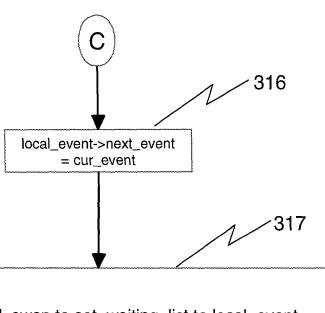


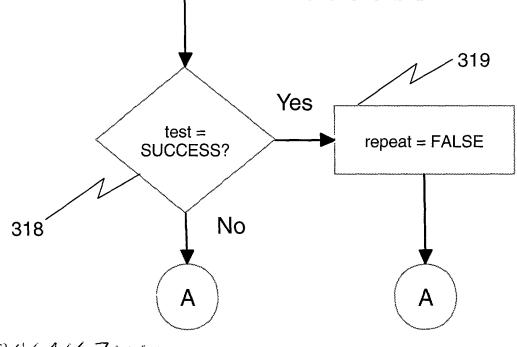
Figure 4D







compare\_and\_swap to set waiting\_list to local\_event if it's value is equal to the value of cur\_event returned by the previous compare\_and\_swap. Set variable test to the return code from compare\_and\_swap. If compare\_and\_swap fails, cur\_event is set to the current value of waiting\_list.



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Figure 5C

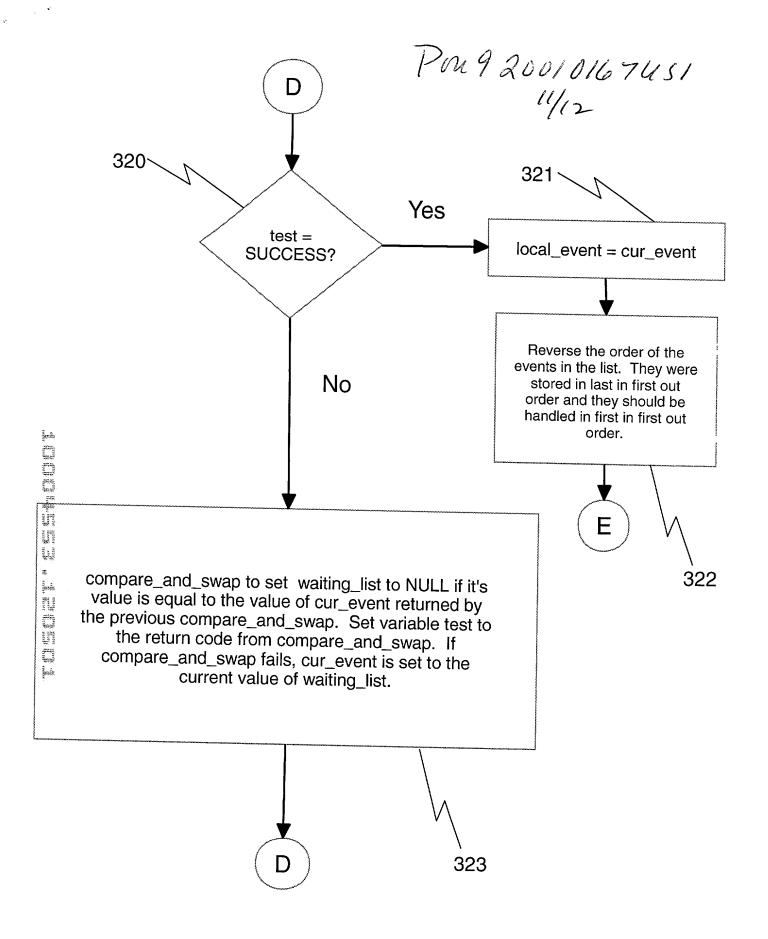
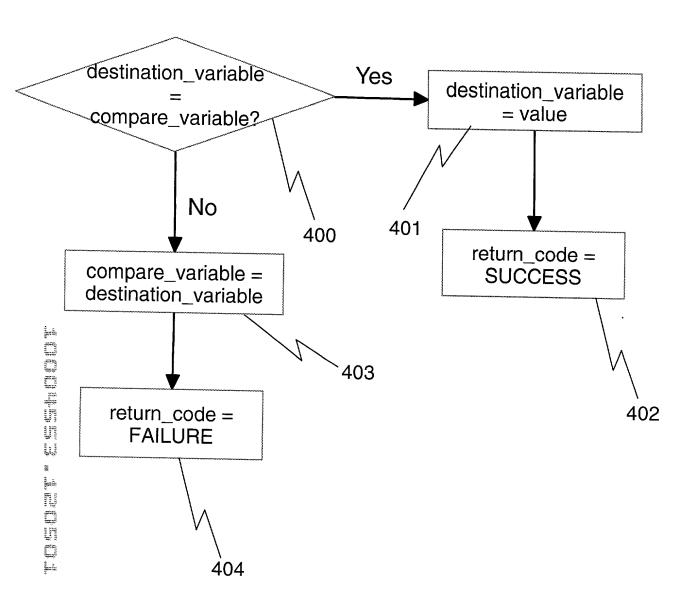


Figure 5D

## Compare and Swap Flow



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Figure 6